

Toike oike

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MERRY CHRISTMAS EVERYBODY!

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No. 4

THE KRITCH MOTOR COMPANY WHICH ALREADY BRINGS YOU
THE INIMITABLE **Papis-ite**
NOW ANNOUNCES

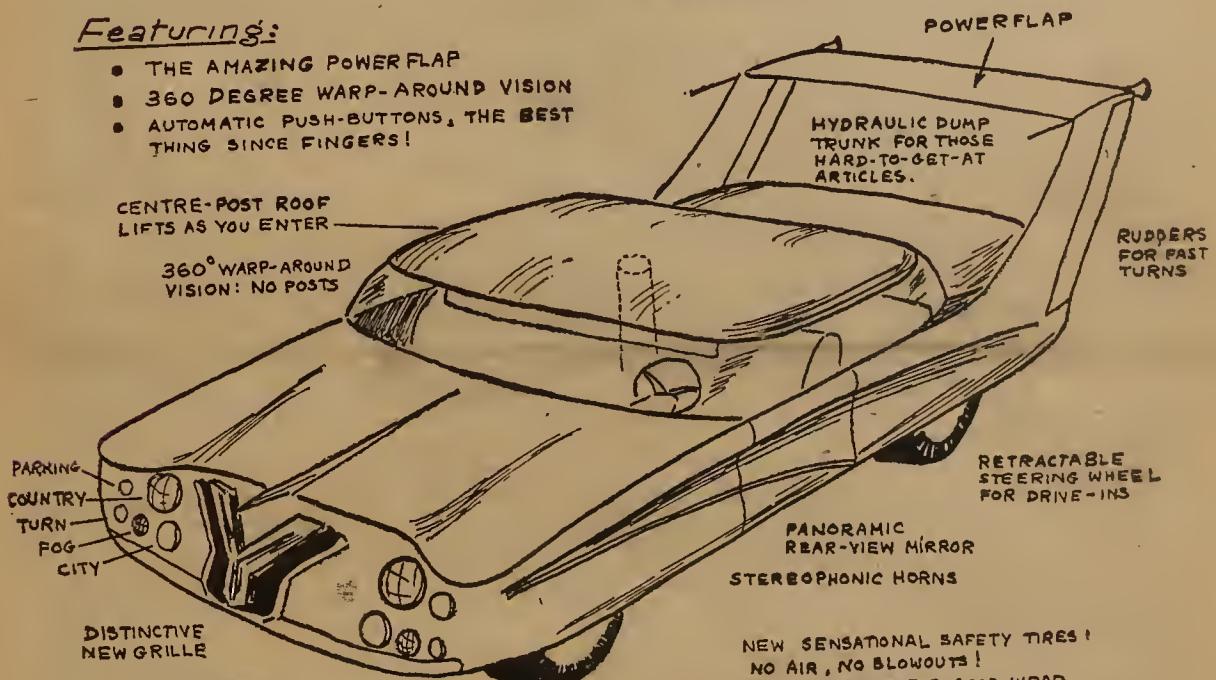
THE 1958 *Yodar*

THE BIG Y

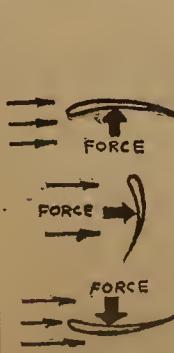
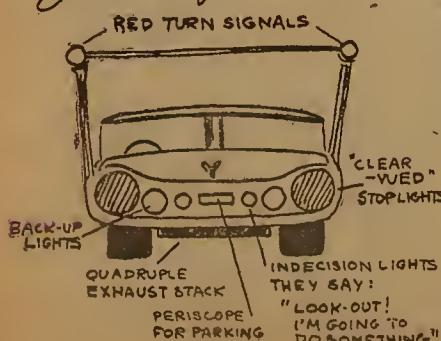
* THE ONLY CAR BIG ENOUGH TO SLEEP 2 IN THE FRONT SEAT!

Features:

- THE AMAZING POWERFLAP
- 360 DEGREE WARP-AROUND VISION
- AUTOMATIC PUSH-BUTTONS, THE BEST THING SINCE FINGERS!



Yodar for '58



POWERFLAP

"THE GREATEST ADVANCE SINCE THE WHEEL"

WHEN THE TRUNK IS FULL YOU PUT THE SELECTOR IN THE "LIFT" POSITION. POWERFLAP ACTS LIKE AN AIRFOIL. IT TAKES SOME LOAD OFF THE REAR LEAF SPRINGS AND GIVES YOU A SMOOTH AND EVEN RIDE.

WHEN YOU HAVE TO STOP FAST PUT THE SELECTOR IN THE "STOP" POSITION. THIS TURNS UP THE POWERFLAP AND IT BECOMES AN AIR BRAKE STOPPING YOU QUICKLY WITH NO DANGER OF SKIDDING.

WHEN DRIVING ON ICE OR SNOW FLIP THE LEVER TO THE "PUSH" POSITION. THE POWERFLAP ACTS AS AN INVERTED AIRFOIL PUSHING DOWN THE REAR WHEELS AND GIVING YOU MORE TRACTION.

BRZUSTOWSKI

TOIKE OIKE

Devoted to the interests of the undergraduates of the Faculty of Applied Science

Published every now and then by the Engineering Society of the University of Toronto

Opinions expressed are not necessarily those of the Engineering Society or its officers.

Business Manager

Photographer

This Issue

Robb Main

Harvey Griggs

Tom Brzustowski, Mike Heuer,
Ed Kerr, Frank Wawrychuk

Christmas

This is our Christmas issue, the fifth and last issue of the term. It would therefore probably be deemed most appropriate to include an editorial bearing some relation to the glorious season of Christmas. But what?

It occurred to us that we could easily adopt a very professional attitude, and write a lengthy treatise on the contribution of Engineers to the season of Christmas. It would have included such things as the many hours of intensive work which the engineers have put into the design of the mighty power turbines at Niagara so that the little light would burn atop the Christmas trees of every home. Or, perhaps, it would have been about the almost unbounded joy which so many little boys will receive from their beautifully engineered electric trains found under the tree, and the earnest decision which they will then make to enroll in Engineering so that some day they too may design real electric trains, or other toy ones which would bring as great delight to the boys of succeeding generations. It could also have been a tribute to the engineers who designed the carillons in the church towers, to inspire and cheer all who heard them as the Christmas carols sounded peacefully over the country.

However, we became convinced that we should, even this once, forget the profession of Engineering, to return to it with renewed vigour at the beginning of next term. In the search for a suitable editorial topic, our thoughts wandered to the men's magazine lying on the desk, and to the gift supplement which it contained. Had we our choice, no gifts would be more welcome than that portrayed in the colour picture spread across the centre pages, a wonderful playmate for all the months of the coming year. With the return of reason, we realized that this was too much to hope for. As a second choice, we would settle for a number of tubes of the whiskey flavoured tooth-paste, genuine 6 percent Scotch, the advertisement said. Before this, whenever we invited a girl up for a drink, she always appeared to suspect some hidden and sinister motive, and courteously declined. Now we could say, "How would you like to come up to my room and clean your teeth?", — a perfectly innocent and commendably hygienic proposition. As an alternative we would settle for that LP of Christmas carols which all the immature disc jockeys seem reluctant to play.

This trend of thought was interrupted with the realisation that an editorial on expected Christmas gifts would most probably be berated by the more widely distributed but less consequential campus newspaper. We would be accused of commercialising this holy season, at a time when the rest of the campus is trying to put Christ back into Christmas. "Toike Oike", being by nature a quiet and uncontroversial publication, we decided to abstain from such a line of writing.

So, we thought, our editorial must provide an exemplary lesson in practical Christianity. Therefore, we forgive all those who have in any way wronged us this term. This will include the fellow who sits before us, but refused to render any assistance in that ridiculous Machine Design test. We forgive that Electrical lab-demonstrator who rightfully discovered that that excellent report of ours was really a transcription of one of last year's reports. However, we still believe that the effort involved in procuring and transcribing the old report deserved another A. We forgive the Hydraulics professor for that hopelessly difficult mid-term test.

But we dare not end here. A check on the previous issues of the term will reveal that "Toike Oike" is probably unique among the publications of the world in that we have not yet written an editorial on the Russian Sputniks and their significance to the Western World. This grievous omission must be rectified immediately. Therefore, in conclusion, we forgive, above all, the Russians, for having orbited two satellites before the West could launch a single one. More important perhaps, we forgive them for the addition of a new word to an already complex language.

How To Demonstrate Effectively

by Tom Brzustowski

Relationship between demonstrators and students is of two types. The first consists of personal contact with the student and answering questions he raises during an experiment; the second is the impersonal relationship achieved through marking laboratory reports. In both instances it is imperative that the demonstrator maintain and build upon the preconceived notion that he has a better knowledge of the subject than the student.

The demonstrator faces the greatest peril in the course of actual laboratory periods. It is then that he is wide open to unmerciful and relentless attack from the students. Such questions as "What circuit-breaker?", "How's this, vernier, business again?", "Why is that pressure gauge going off scale?" or "What fringes? I can't even see the slit!" are enough to drive a man to selling magazine subscriptions. What makes the matter even more difficult is the fact that the demonstrator is expected to answer all these questions if he is not to lose face.

Some very effective methods for dealing with such crises have been developed and are widely used. The "snap" method is perhaps the most direct. It simply consists of telling the party, at the beginning of the experiment, that what they have to do is a snap. This lulls the students into a sense of security and no one even thinks of asking a question. Another popular method, though not final in itself but rather a good preliminary, is the "diagram" procedure. In using this, the demonstrator walks to his assigned group, points out the apparatus, tells the student to draw a diagram of it, and goes out for a cup of coffee. It does not solve his problems but put him in better shape to face them later. The most effective method by far, and also the most edifying, is the "outline" method. Although it may often require a certain amount of preparation, its profits are so great that it has become almost standard practice. The procedure here is to tell the students that the experiment is fairly straightforward, to give about a half-hour lecture on the experiment with some detail and with several references, and then to answer all questions with "It's all in the notes I gave you." This makes a tremendous impression on the students. First, it shows that the demonstrator is considerate

and organized; secondly, it shows the care with which he is looking after his students; and thirdly, when all their questions are answered the same way, it shows the students just how good the outline was.

Some specialized methods have also come into use. When a demonstrator looks after more than one experiment he can always get out of a tight spot by suddenly remembering "the heater I turned on in the other room." A friendly chat with the experimenters and a good joke may often stem the flow of questions even before it begins. In addition, it will certainly improve the demonstrator's reputation among the students.

In problem labs there is really only one good treatment for questions. When a student raises a question there it is obvious that he wants the answer to the problem without having to work on it all by himself. Demonstrators, being civic-minded citizens, determined to uphold the high standards of professional education, cannot give the student the answer, or even put him on to the method which gives the correct solution directly. Yet, they have to answer the question. This Titan's struggle of moral values against reputation is exhausting and has already claimed many victims for the subscription business. However, there is hope. One method has been developed which not only saves the demonstrator from an internal struggle but also shows his obvious superiority over the students.

When a question is asked the demonstrator should take the offending one aside, to an empty desk or to a corner of the board, and there run over the fundamentals of the whole course, deriving equations from one another with such adroitness that the student cannot help but be amazed. Then he should continue with qualitative description of much more advanced topics until the student shows signs of weariness. While he has given the student no direct clues on the problem, he has given him a quick review of the fundamentals from which the student himself should get the answer. In addition he has left the impression that he is an expert in the field. Thus a possible disaster is turned into a victory.

It is in marking the laboratory reports that the demonstrator is given his best chance of asserting

his superiority. By the comments and signs he makes he can establish himself as a higher being which knows all and tells naught. As an illustration of the many ways in which he can do this, the following information abstracted from Chapter IV, III Edition of the "Pedagogue's Pocket Pal" is reproduced here:

"... All marks made by the marker should be in red. Thick red pencil is preferable to ball-point pens. Grease pencil should be used if available... Comments should be limited as much as possible. They should be written at an angle to the text, should be on the brink of illegibility, and should contain no information of any value... Check marks should not be used on correct statements. This will keep the student in suspense and make him try harder the next time... Question marks should be used often. They are most effective at the end of long paragraphs of result analysis. Question marks half-way through long calculations will make the student repeat the work and sharpen his ability to carry out mathematical manipulations... Exclamation marks can be used with comments and question marks to enforce their effect. Exclamation marks used alone point up the rashness of statements or absurdity of results. NOTE: Caution in the use of exclamation marks is advised in the case of students with neurotic tendencies... All mistakes in punctuation, spelling, grammar, etc., should be underlined and an illegible comment in the margin should accompany them... Twenty percent of the value of the report should automatically be deducted for handwriting which is harder to read than print. This fault makes the student obviously unfit for work in industry as it would involve additional work for the stenographer transcribing his reports... The grade of the report should be entered on the last page in order to ensure that the student will see the marks made throughout the report while he is looking for it..."

It is hoped that the above will acquaint present and future demonstrators with just some of the many tricks of the trade and that it will ease their burden just a little.

Author's note: I'd like to write some more, but I must hurry. I have to write two lab reports for tomorrow.

Skuleman At The Crest

"Bright Sun at Midnight", now playing at the Crest is a play based on the Norman case from the pen of Canadian playwright John Gray.

Perhaps "based on" is the wrong term, for it is difficult to tell where the facts end and where fiction begins. If Mr. Gray wishes us to accept his play as fact, then it is a damning political tract against the Liberal Party. If it is fiction, it is pointless. As it stands however, it is a confusing combination of both a thinly veiled mythology in which we can half recognize most of the characters and events. It is this schizophrenic quality which badly weakens it as a play.

As dramatic entertainment however, it is still quite enjoyable. The central role of Secretary of State for External Affairs was superbly played by John Draine, with John Holden as the under-secretary. Larry Mann as the American Ambassador, and Edwin Stephanson as a witty and cynical speechwriter were more than adequate.

The play is set in the office of the Secretary of State for External Affairs, the main character. Because of pressure put on him by the Prime Minister, he is forced to choose between political expediency and loyalty to his dead colleague and friend. It is

with this choice, to play ball and become the next Prime Minister, or to stick to his principles and he rooted out into the political wilderness, which provides the play's central theme.

In the course of unfolding this theme, Mr. Gray makes some very pointed remarks. He feels that young people are political cowards whose only desire is to remain uninvolved; that Canadians in general are politically ignorant, that the party, presumably the Liberal party, is rotten, its cabinet a "zoo" and its government a "cesspool".

While this is rather strong, it cannot be denied that in places it is well said. Some of the dialogue is quite smooth and clever. The young speechwriter, the rosy-cheeked product of an advertising agency, has some particularly

S.P.S.-O.C.E. Christmas Tree

The Engineers will exchange gifts with Ontario College of Education in the annual Blue and White Christmas Tree to be held in Hart House on the evening of Dec. 20th, (Friday), at 8 p.m. The exchange of gifts will be done in poetry, and will be accompanied by skits staged by each participant.

Last year's Christmas Tree was presented before a very full house, and it is expected that there will be a great demand for seats at this year's party also.

biting things to say, but there are other times when the whole production stumbles and falters in a series of clichés.

Your enjoyment of this play will depend in large measure upon your political leanings.

R. Marriott, II Course 7.

Compliments of the

ELM GRILL

171 College Street West

And to all men all over the world,
we wish
A Merry Christmas.

Engineers Entertain Settlement Kids

The Engineering Society will be hosts, next week, to a group of boys from the University Settlement. For a number of years, the society has been host to the boys, age group 11 to 17, and entertained and fed them in Hart House. At a recent meeting of the Engineering Society Executive, it was decided to continue this tradition. Date of the party has not yet been definitely decided, but it will probably be on Thursday of next week (December 19th).

Dave Maben, of the University Settlement has expressed great satisfaction with this effort of the Engineers, which he says, has come to be regarded by the boys as one of the highlights of the Settlement's year.

Mechanical Club Dinner

MECHANICAL TYPES! Don't forget the dinner Thursday night! If you haven't got your ticket yet, better hurry up. This dinner is definitely a highlight of the Skule year, and nobody in his right mind would think of missing it. It will roar into life at the Canadian Court of the King Edward Hotel at 6:00 p.m., with the reception (shurp). By the time you have worked up an appetite (which should be around 6:45) dinner will be ready. After the dinner, Jocelyn Rogers, chief criminologist of the Metropolitan Police Force, will give a talk on "Technical Evidence Before The Courts". Following the speech there will be some more reception. Be sure you don't miss it...

The BIG, BIG, BIG annual Mechanical Club BIG, BIG, BIG Dance will be at the Embassy on January 16, so start making your plans now. This is another of those gala events, which have made ALL the other courses so envious, and point up the fact that Mechanicals are not only technical superiors, but are also connoisseurs 'par excellence' of the finest social entertainment our society can offer. Watch for more news of this BIG, BIG, BIG affair.

"Grandpappy you're getting pretty old and feeble. Don't you think you'd better go to the poor house?"

"You're dadburn right, sonny. I'm a-rarin'. Let's get a-going."

"I can't understand why you're so anxious to go to the poor house."

"Poor house? POOR HOUSE! Ye gads, I thought you said — Aw, skip it. Just let me dream."

Roy McDermott, in charge of this year's party, reported that a full programme for the evening has already been drawn up. The boys will assemble at Hart House and there, under the supervision of volunteers, will be allowed to use the facilities of the athletic wing. Following that, they will shower and have a swim in the pool. At five, the Society will be their hosts to a dinner in the Graduate dining room of Hart House, where they will each be treated to a gift of substantial worth.

To wind up the evening's events, the boys will be shown a series of films, through the courtesy of Molson's. The films will include last year's Grey Cup Football game (in colour) and a number of cartoons.

The Engineering Society is to be congratulated on this worthy effort.

Electrical Club Dance

A very successful dance was staged by the Electrical Club at the Embassy on the night of December 4th. The staff was unusually well represented as were the students, many of whom were non-Electricals who had sneaked in to enjoy the evening's festivities.

The whole dance reflected careful planning, which ensured the success of the venture. At the door, the ladies were all given little rubber men which could be bent into any position and provided many laughs throughout the evening. Later on several valuable prizes were distributed in dancing contests. Joe Furgal, IV Mechanical, (how did he get in here?) won the grand prize, a book and tickets to "Around the World in 80 Days". About 13 LP's were distributed as prizes for other contests.

Roy McDermott, chairman of the Electrical Club, expressed disappointment with the response of the first and second years. It is imperative that these members show a greater interest in Club Activities if all events are to attain the success of the last venture.

"Do you know what they call a man who doesn't believe in birth control?"

"No, what?"

"Daddy."

Mother: Do you like your new nurse, Jimmy?

Jimmy: No, I hate her. I'd like to grab her and bite her neck like daddy does.



The Skule House Four at the Cannon Ball



The Skule Nite Kick-Line

**MECHANICAL CLUB
ANNUAL DINNER**
CANADIAN COURT, King Edward Hotel
Thursday, December 12th, 6 p.m.

Guest Speaker:
JOSLYN ROGERS
Criminologist, Metropolitan Police Force

M&M Club

The meeting of December 2nd, in Hart House was very successful. Many members brought dates, fiancees, wives, etc., along to hear the most enjoyable speaker obtained in years, Dr. L. J. Rogers from the Criminal Investigation Bureau. Topics touched humorously and informatively on murder, safecracking and arson. After the speech there was free lunch and a general get together of members.

On Monday, December 9th, there will be plenty of action in the mining lounge. At 12 o'clock, a movie "Mining for Nickel" will be shown. At 1:10, representatives of Inco's geological mining, and metallurgical departments will speak on Inco employment opportunities.

On Wednesday, December 11th at 1 o'clock all members should be present in lounge when Dr. Pidgeon, Head of Department of Metallurgy will address the club and in particular metallurgists. This will be a talk you cannot afford to miss.

Tickets are now available from class-leps for the Big BIG Club dance on January 16th, 1958 at the Embassy. Third year is planning a class reunion for that same night, also at Embassy. Get your class together and come to this bash after the final Christmas Exams.

Door prizes in form of 100 pro. will be given away.

Share campaign will be continued till Wednesday of this week. One dollar is objective but if this leaves you short a meal, then a quarter is certainly a help in this worthy endeavour.

For the first year, best of luck on pre-Yule exams. See you back here next term.



Going — Going — Gone
Jim Vasoff Auctions Vic Blonde for \$37

FOURTH YEAR FIELD TRIPS

Montreal

By WINSTON HAY

The several groups of fourth year engineers who went on their field trips during the last week in October, all spent the weekend in unique Montreal. To many this was indeed fitting climax to the whole expedition, and the portion most assured of lasting and pleasantly nostalgic memory.

There can be little opposition to Montreal's claim to being Canada's most cosmopolitan city. This claim seems justified not only because of its two great language groups, important a factor as that is. In whatever section of Montreal one may find himself, the city seems to impress upon its visitor, in some indescribable way, the fact that he stands in one of the world's great cities. Great, not in the sense of having towering skyscrapers and sparkling prosperity, not in being the scene of feverish industrial activity, but in having a character and personality all its own, more interesting than the other factors mentioned. Montreal appears to be a city whose inhabitants do more than drive to work and back home each day. The Montrealer is cognizant of life's short span, and so makes the best of what he yet may spend. Insofar as it succeeds in creating this impression, Montreal appeals to the casual visitor in a way unequalled by any other city in Canada, and very few in North America.

And so it was that more than 200 engineers found themselves on the streets of Montreal on the night of Thursday, October 31st, all intent on investigating the reality of the city's inviting facade. Some, the more athletic and esthetic types, climbed to the top of imposing Mount Royal to enjoy the breath-taking beauty of the illuminated city spread beneath their feet. Others, primarily those whose financial resources

were already dangerously near depletion, strolled through the streets, quietly observing the many changes of language, architecture and living standards which one could encounter in an evening's short walk through this city.

By far the largest number, however, were intent on sampling the night life, for which Montreal is so justly famed. The most difficult item in this endeavour was the decision as to which night club should be patronized, as hundreds of neon signs glittered invitingly. For this reason most ended up adopting a routine which probably ran like this:

A visit to the club which advertised continuous strip-tease. They boasted 32 artists, who followed one another on stage without interruption, number one being ready to resume as number 32 left the stage. Few remained throughout the entire show, but left perhaps about the 17th performance, for the very popular Rock and Roll club. Here the performers really seemed to be enjoying their work, while the audience stared through the thick, smoke-filled air, in a dope-like trance. This was the "joint" where the waiters literally twisted one's arm whenever he neglected the tip. Leaving the noise for a breath of fresh air, our engineer probably wandered over to one of the many delightful small clubs with an excellent band, and there danced until the early hours of the morning. Then he wandered back to the hotel, counting the small change remaining in his pocket, but thinking the night well worth every one of the several dollars spent.

Not to be forgotten, indeed uppermost in his mind will be: Bridget, Lucy, Nicole and . . . oh well!

Ah. Vive Montreal!



House Moving for St. Lawrence Project

The St. Lawrence Power Project

By STAN WEBSTER, IV Civil

The visit to the St. Lawrence Power Project as guests of Ontario Hydro was part of the field trip for members of the classes of fourth year Civil, Mechanical and Engineering and Business.

The first structure on the project is the Iroquois dam. The purpose of this dam is to control the flow of water from Lake Ontario. It is 2,540 feet long and is being built in two stages by means of cofferdams. The first half of the dam was built between two cofferdams while the river flowed in the unobstructed half of the channel. The cofferdams were then removed and placed in the channel where the second half is being built while the river flows over the first half.

Since the old town of Iroquois will be flooded when the project is completed, most of the houses in it have been moved to a new townsite north of the old location.

The powerhouse dam has no spillway since the spillway of the Long Sault dam can control any flood condition that may raise the head above normal at the powerhouse. There are 32 turbines in the powerhouse, 16 on each side of the Canada-U.S. border. Ontario Hydro and the Power Authority of New York are sharing the cost of the powerhouse. Each agency will receive the power from the 16 generating units on its side of the border. The total power output from the 16 Canadian units will be 320,000 kilowatts.

Propeller type turbines are being used and they will operate at a head of 81 feet. The two control dams upstream will regulate the head and flow at the powerhouse so that a constant and reliable power output can be maintained all year round.

Civils

By STAN WEBSTER

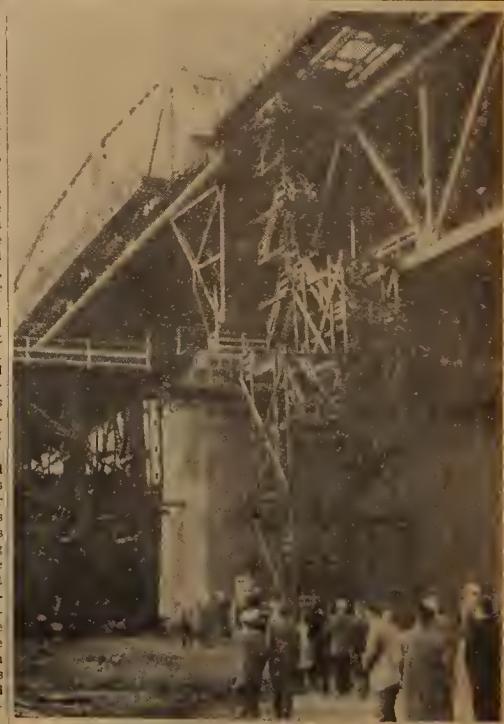
The trip began shortly after nine o'clock on the morning of October 20th when a bus carrying the fourth year civils departed from the Little Red Skule House.

The first official stop on the trip was at Belleville for a visit to the plant of Wilson Concrete Products. The class toured the plant which manufactures a variety of precast concrete products, and then saw a full scale load test on a pretensioned, prestressed concrete double tee slab.

The next day the class visited the St. Lawrence Power Project as guests of Ontario Hydro. A very comprehensive tour had been arranged and the class saw many of the project's various phases which range from relocating graveyards to constructing dams.

That evening the class arrived in Montreal and with the Queen's Hotel as headquarters a number of smaller non-engineering trips were organized to various parts of the City. The next morning the bus left for a tour of the Canada Cement Company plant in Montreal East. The tour followed the manufacture of cement from the quarrying of the limestone to the shipping of the finished product. That afternoon the class visited the Jacques Cartier bridge where an unusual construction operation was taking place.

The channel of the St. Lawrence Seaway passes under the bridge which must therefore be raised to create sufficient clearance for ships to pass under it. The deck truss over the channel has been replaced by a through truss which adds thirty feet of clearance. However, an additional fifty feet of clearance is required, and this is being obtained by jacking the



Jacques Cartier Bridge Elevation

truss up in small increments and building up the piers as the jacking proceeds. This procedure is necessary in order to cause a minimum interference with traffic on the bridge. The operation was first explained to the class which then saw the special equipment used on the project.

This was the last vision of the

group set off for the Blind River Area, to visit some of the Uranium developments there. The Uranium projects were particularly interesting here. Later on in the day, the Algoma Nordic mill, situated near Lake Norden, was visited. This mill is one of the larger uranium ore processing mills in the world.

On Saturday morning the group set off for the Blind River Area, to visit some of the Uranium developments there. The Uranium projects were particularly interesting here. Later on in the day, the Algoma Nordic mill, situated near Lake Norden, was visited. This mill is one of the larger uranium ore processing mills in the world.

Not even on Sunday were the geologists allowed to relax. On their way back to Toronto, they stopped in to look over the enormous new sulphuric acid plant at Cutler. Owned by the Noranda mines, the plant is just now approaching full production.

Arriving back in Toronto on Sunday night, few geologists found enough energy to climb out of bed for lectures the following morning.

The miners and metallurgists have not yet been able to decide on where their next field trips will take them, and so they have yet to embark on an extended field trip. They don't know what they've missed.

Mechanical and Engineering Business

By CHRISTIE SMITH

At 7:00 a.m. Wednesday, October 30th, 5T8 Mechanical & Eng. Bus. students accompanied by Prof. Wallace, left Skule in a Greyhound bus, and drove through a fine drizzle towards points East.

Two or three whistle stops later, we disembarked at the Kingston Works of the Aluminum Company of Canada. The tour started with the ingot and remelt furnaces, moved through the mill and rolling section to a fine turkey dinner in their cafeteria. Afterwards the heat treat, extrusion press, foil mill and shipping area were investigated, concluding with a tour of their new standards and testing building.

Aboard once again, we sang and clinked our way to Brockville, where superb overnight accommodation was available in the form of three hotels and one motel. Apart from brief encounters with the local constabulary ("but we're dry, Officer"), things were quiet. However, one cannot forget the stolid figure named Meredith swinging down an alley with a suitcase under his arm, mumbling "To hell with the 'garbage'."

Next morning we were on the road again, tired but determined not to die of thirst. A rubbe

bridge brought us to the Iroquois Information Centre, start of our tour with the Ontario Hydro. This included the relocated town of Iroquois, the control dam and lock, Morrisburg and Long Sault Lookout. After viewing two huge house-movers at work, we became willing luncheon guests of the Hydro in Cornwall. In the afternoon, the

(Continued on Page 5)

trip and from Friday afternoon until early Sunday morning the individual members of the class engaged in a variety of educational and cultural activities. Many of them were present at the football game on Saturday afternoon where amid frequent cries of "post time" they saw the Blues win over McGill.

Field Trips... cont'd**Electrical**

By ROY McDERMOTT

The bus left Toronto early Wednesday and drove directly to the Canadian General Electric plant in Peterborough. After meeting the guides, a fast, but delightful tour followed. The tour consisted of a trip through all the divisions which were not classified and ended up by a tour through the experimental laboratory. During the tour, time was allowed for lunch and the C.G.E. company provided the meal.

After the tour was concluded the group boarded the bus which drove to Ottawa for supper. The boys became restless and started to sing and play cards. Of course, there were some who were quite tired and they slept. (How could they, the noise was awful). At Ottawa, we stopped for supper and then departed for Montreal.

In Montreal, the group arrived at the Laurentian Hotel and after a quick wash headed for the bright lights and _____? The following Thursday morning all boarded the bus for the Northern Electric Company for another tour. As before, the Northern Electric Company provided an excellent tour and meal. The boys were awed by the number of girls working at N.E.C. (They can hardly wait to graduate). In the evening they again toured Montreal.

On Friday, the sleepy mob gathered together and went by

bus to Canadair Limited. Again as before, C.L. provided an extremely interesting tour with a very good meal. This tour was for a whole day and demanded a lot of walking. After the tour was concluded the mob woke up and sped back to Montreal.

On Saturday morning the crew dragged themselves to the bus and drove to the Beauharnois Power Site. The Quebec Hydro provided guides and a brief but interesting tour followed. It may be noted that the Beauharnois project is soon to become the largest in the world. Back to Montreal and the Blue and Red football game. No more need be said.

By the time Sunday arrived, the class was really tired and bored. A tour of the St. Lawrence Seaway Project followed on the way home. Starting at Cornwall, where we had dinner at the King George Hotel, the tour was taken up to the central dam at Iroquois. This tour was extremely interesting and provided the class with a better understanding of the aspects of such a large project. Then on to Kingston for supper and finally home to Toronto.

The field trip was a tremendous success and provided the future Electrical graduate with some insight into the business world.

Mech. & Eng. Bus. cont'd

(Continued from Page 4)
powerhouse area and cofferdam at Barnhart Island were inspected.

At 4:00 p.m. the bus departed for Montreal. The bidding of the card sharks muffled various underfoot noises permitting some dubious pleasure of scanning Marcus Long, sleeping or even thesis writing. The Queen's Hotel and various fraternities provided our berths for the next few days. One testifies to describe a personal experience like Montreal, the hospitals are so accommodating, the bars so profuse and money even scarcer than sleep.

Stoically arriving at an ungodly hour on Friday, our group, still miraculously intact although obviously the worse for wear, made its way to Dominion Engineers Montreal Works. After threading our way through most of the 17 buildings and one million feet of floor space comprising the Machine shop, Power Crane and Shovel, Diesel and Hydraulic divisions, we took a well deserved break in the cafeteria. After lunch the foundry was investigated, following which, various group discussions were held.

A rainy Saturday cleared sufficiently for the football game, and then our last night in Montreal some entrepreneurs climbed the mountain, while others occupied themselves in lessening their suitcase tonnage.

Employment Opportunities

Folders with information on the companies requiring engineers for this year's graduating class have now been placed in the libraries of the different departments. All fourth year students who have become sufficiently brave or enthusiastic to have decided to face the cruel world outside and begin working for a living, are advised to consult this folder and carefully select the company with which he would probably like to work. Not all the companies listed will have representatives on the campus during the interview period. In such cases details of application procedure are given.

To obtain copies of this booklet, students should go to the Placement Service and present their A.I.T. cards. All copies are reserved for fourth year engineers.

A Symbol

Throughout the Western World, great furor has arisen among certain groups over the cruelty and inhumanity shown by the Soviets in sending up a dog in Sputnik. Most of us look with amusement, slightly tinged with exasperation on these fanatical animal lovers. Yet, although in a lesser way, all of us participated in this farce. Pictures of various canines appeared in the newspapers; the dog was called by a dozen different names, each more endearing than the other, and never, oh never was it called a bitch. It was a "female dog" idealized and admired was the poor mutt, which, oh pardon me, who had so heroically volunteered to pioneer man's conquest of space.

Even among us Engineers, who should be beyond the plight of the dog, who should direct the people's views toward the true significance of the satellite, even here Laika was the centre of attention. Did we wonder whether the Russians had solved the problem of re-entry into the atmosphere. No, we only asked whether Little Curly would get back down. Did we wonder what effects the cosmic rays were having on the dog? No, we asked how could it stand being strapped down so long. One, and over, one heard speculation as to whether the dog was being given tranquilizing drugs and whether it would eventually be poisoned. Evidently anyone was inquiring just what the flying dog indicated about the Soviets' technological potential.

Is this not all too common a fault with us? We get all hot and bothered about these "human interest" aspects of events but tend to overlook or ignore the deeper significances. We look at droplets of water and fail to observe the ocean, threatening and vast. The other newspaper on this campus published an editorial suggesting that the mutt be used as a symbol of Soviet cruelty and inhumanity. Ridiculous. What is inhuman about saving an animal in the interests of science; even if this science is

Should We Be Here?

Time after time our friends to the north remark that we Engineers have no place on this campus — that we are unworthy of being part of a university, but should be relegated to a technical institution.

Are they right? Maybe they are as far as some of us are concerned. All too many of us sneer at our "artsy" subjects. We consider ourselves above such details as having a command of the English language and a knowledge of the political and economic basis of our society. We are Engineers! We do not grope in abstraction; our calculations are exact our knowledge precise. We who think this way do not belong at a university.

The engineers and scientists should be the leaders today; they shall be the leaders of tomorrow.

Therefore we must prepare to take over the ruins of the nation. In order to do so, we must be more than traditional engineers — we must also be familiar with the matters heretofore left to the Artsian, Sociology and Philosophy, history and economics. all of these a leader must understand.

We are at a university; we have been given the opportunity to learn all this. Some of these subjects are taught formally as part of our curriculum; others we may learn from reading, from associating with and talking to Artsians.

We will learn. We will be able to stand up proudly and say, "Yes, we are Engineers. And we too are part of this university."

geared for destruction. One might just as well use a humungous vulture.

If we must keep thinking of the dog. If we must use it to symbolize something, then let it remind us of our habit of shunning about small matters and ignoring important ones. Let the Pooch on the moon warn us that we have a dangerous tendency to walk in the trees and not notice that we are lost in the forest.

Robert H. Saunders' Power Station

Chemical

On Wednesday, October 29 at 2:45 EST, the pride of the Faculty of Applied Science and Engineering left for their annual field trip to Shawinigan Falls, leaving behind a puddle of rain. The means of transportation, courtesy of C.N.R., consisted of fully equipped colonist cars, with all the modern conveniences, including round wheels.

As the train sped on Montreal, the cheerful clinking of gingerale bottles, interrupted only occasionally by an uncouth roar of uncontrollable mirth or rage, continued long into the night.

Thursday morning and Montreal came and passed by unnoticed by most. A streamlined silver diesel carried the whole somewhat somber troupe to their final destination, (Shawinigan Falls, lest there be any doubt), where within three minutes of their arrival, sixty three ham sandwiches were devoured by the starving students, who didn't get any breakfast that day.

This was followed immediately by a quick romp through the Caribee Division of Shawinigan chemicals, and a lunch fit for engineers at the Cascade Inn.

With the Shawinigan Chemicals as the host. That afternoon, they choiced through the fragrant organic Chemicals Division, and then took a close look at the Shawinigan Water and Power Co.'s dam and generator station. As guests of that last company they dined at the Cascades Inn which was the headquarters for the visiting engineers for the duration of the trip.

Then came the night of revelry in the town (pop. 50,000 and an equal number of bars with a 7 to 1 women ratio). We shall drop the curtain here and raise it again on Friday morning at 8 a.m. Starting with breakfast at the Cascade Inn, (terrific at \$1 apiece), the Friday schedule took the Chemicals through the Dupont cellulose plant followed by a delicious lunch as the guests of our guides, then through the Alcan fabricating plant and smelter. Weary after the full two days of visiting various plants they were dined and wined as usual at the Cascade Inn at the expense of the Alcan Co.

That night some of them were entertained by one of the more talented and spirited (no pun intended) colleagues of French origin until 4 a.m.

At 11:00 a.m. Saturday morn-

Eng. Physics

As would be expected, the Engineering Physics trip was planned to interest those contemplating a future in research rather than in industry. Accordingly, the two main stops of the trip were the Atomic Energy of Canada Limited at Chalk River and the laboratories of the National Research Council in Ottawa.

At times throughout the trip, students would no sooner become interested in one particular line of work or piece of apparatus, then they would be whisked away to another laboratory. For some the trips undoubtedly degenerated into a whirl of shiny boxes and flashing lights, punctuated by the inevitable party each evening, but for others the trip was a great success.

The Engineering Physics group joined the other courses in Montreal on the Saturday for the McGill football game.

FOR THE CHEMISTRY EXAM ALL ONE NEEDS TO KNOW IS THE BASIC FORMULAS!

WHAT ABOUT ACID FORMULAS SIR?



Serving the Engineering Profession in Ontario

THE PROFESSION

It is an obvious truism nowadays to say that we are living in an engineering age. The products and effects of the engineering profession appear before us so constantly in supplying our basic needs that they are taken as much for granted as the very air we breathe, not only by the general public but by engineers as well. And yet, the demands of our civilization are still so continually growing that the possible future services of the professional engineer to the nation are only in their infancy. The potential area of these possible services out-reaches the vision of even the most prophetic among us.

The professional engineer's training, knowledge and ability are already serving the public in ways far beyond the scope of their simple application to technical problems. Engineering, because of its limitless possibilities and the part it plays in the daily life of every citizen, has already progressed beyond the stage where it was formerly considered as just a profession concerned with constructive enterprises to the stage where people now realize that it is a social science as well. It plays an important social role in education, in public safety, in traffic control and in municipal planning, development, and growth. All this in addition to its more generally known constructive applications in atomic energy projects, in the operation of mines, in the production of chemicals, in the development of air power, and in the designing and building of bridges, skyscrapers, waterways, roads, hydro-electric power plants and all kinds of machinery.

ADMINISTRATION OF THE PROFESSION

All branches of the engineering profession in Ontario are administered to, and served by, the Association of Professional Engineers of the Province of Ontario. The Executive Council comprises equal representation from the civil, electrical, mechanical, aeronautical and industrial, chemical and metallurgical, and mining branches.

The Executive Council consists of a president, a first vice-president, a second vice-president, and three councillors from each of the five branches. All members of the Executive Council are elected annually by ballot, with the exception of one councillor in each branch, who is appointed by the Lieutenant-Governor-in-Council. These appointees hold office for a period of five years.

THE PROFESSIONAL ENGINEERS ACT

The Professional Engineers Act, (Chapter 292 R.S.O. 1950) is administered by the Association. To secure standing as a professional engineer the applicant must be:

(a) resident in Ontario,

(b) of the full age of twenty-one years or over;

(c) a graduate of an engineering school recognized by the Council;

(d) he must also provide satisfactory evidence of good character.

Applicants who are not graduates may secure registration by successfully passing examinations set by the Association. The examination syllabus is common to all provincial engineering licensing bodies.

The principal functions of the Professional Engineers Act are:

(a) to protect the public and

(b) to outline the responsibilities of the professional engineer.

The Act was passed by the Ontario Legislature in 1922. It was revised in 1937 in order to provide the Association of Professional Engineers with the authority to serve as the legally-constituted licensing body for all professional engineers and engineering undergraduates in the Province.

CODE OF ETHICS

All members of the profession subscribe to a Code of Ethics. The power of discipline conferred on the Association by the Professional Engineers Act include suspension or expulsion, reprimand or censure. The Practice and Ethics Committee investigates reported breaches of the Code as well as any reported incompetent work.

PUBLIC RELATIONS

The Association is constantly improving the public knowledge and appreciation of the professional engineers' contribution to society. With the assistance of press, radio and television personalities, it has been possible to make the meaning of the title "Professional Engineer" better understood by the general public. The designation "P.Eng." is now generally accepted as indicating professional qualifications in engineering.

Two series of bulletins are prepared and widely distributed. One of these—"Professional Recognition" is a series with a two-fold purpose:

(a) to remind the professional engineer continually of his responsibilities to the public, his profession and his immediate task;

(b) to present to management ideas that will enable the professional engineer to function in an atmosphere conducive to professional development and advance his value to his employer.

The second series, "Silent Service Is Not Enough", has as its objective assistance to members in bringing their engineering accomplishments to the knowledge of the public.

"The Professional Engineer" is the official publication of the Association. It is not intended to be a magazine but is published eleven times a year to present news of members and of the activities of the Association. A membership directory, contain-

ing name, classification, address, and place of business of all members, is published every two years by the Association, and a copy is available to each member.

EMPLOYEES MEMBERS COMMITTEE

To ensure that the council maintains close contact with the needs and problems of members who are employed in large companies, it has set up an Employee Members Committee. Most groups of 20 or more are represented on the committee which meets monthly, and the resulting discussions provide data that are of assistance to the Council in formulating policy.

REGIONAL GROUPS

Members in certain sections of the Province have formed regional groups, and hold regular meetings. These meetings are an additional means of keeping the Council in touch with the members. The Association provides clerical assistance, and supports the groups in many ways.

THE ASSOCIATION AND GOVERNMENTS

The Association has established an effective line of communication with the Provincial Government, and from time to time co-operates closely with the government in matters pertaining to the profession. Also, all proposed legislation originating in the Provincial and Federal capitals which has a direct bearing upon the engineering profession is closely studied by the Association.

During its 35 years in existence, the Association has been successful in many instances in making representations to governments — federal, provincial, and municipal. It is because of the constantly improving liaison between this Association and the governments that the latter are recognizing the important role of the profession in the prosperity and development of the nation.

SALARY STUDIES AND FEE SCHEDULES

In 1945, the Association issued the first guide to engineering salaries ever made available in Canada. Since that time, questionnaires have been sent annually to each member, and the recommended Salary Schedule has been adjusted on the basis of the annual return. The questionnaire indicates the trend. To gain more accurate information on a position basis, a number of industries have co-operated by supplying salary data based on specific job descriptions. More than fifty employers of engineers have assisted in this work. The resulting information enables the Association to supply salary ranges for engineering positions with considerable accuracy.

The Consulting Practice Committee makes a study of all matters affecting the members in private practice. To ensure that fees charged are of such a nature that the client receives a real professional service at reasonable rates, these studies

include costs of engineering offices and result in the issuance of recommended fee schedules.

INCOME PROTECTION PLAN

A Disability Income Protection Plan is available to members and recordees. It provides:

1. accident indemnity payments commencing after 30 days of total disability and payable for life if necessary;

2. sickness indemnity for confining illness — payments commencing after 30 days of total disability and continuing to age 65, regardless of the age of the assured at the time the claim is incurred;

3. sickness indemnity for non-conflicting illness — payments commencing after 30 days of illness and continuing 104 weeks, if necessary;

4. an indemnity, in addition to payments as detailed in paragraphs 1 and 2, payable from the first day of hospital confinement up to 90 days.

LIFE INSURANCE PLAN

An insurance plan is available to members, recorded engineers, students, and graduates-in-training. The plan has been so successful that the carrying company, The North American Life, has from time to time declared a bonus. At the present time, a member or recordee in the age group 21 to 30 may receive coverage of \$15,504 for an annual premium of \$40.00, or \$2.58 per \$1,000 of insurance. Two units may be secured. In addition to the favourable rate, conversion privileges are available, and provision is made for waiver of premium in the event of disability.

ENGINEERING TECHNICIANS

Investigation by the Association discloses that many professional engineers are doing substantial work because technicians are not available. This, of course, does not permit the full use of the engineering training or professional potential.

To encourage engineering technicians by giving them recognition, the Association has undertaken to examine qualifications and certify engineering technicians in five grades. A certificate is issued under the seal of the Association.

ASSOCIATION STAFF

The day-to-day administration of the Association is carried out by a permanent staff comprising an executive director, secretary-treasurer and registrar, a field secretary, and a field representative, in addition to a secretarial staff of 15. All queries, interviews and general Association business are carried out by the staff at the Professional Engineers' Building, 236 Avenue Road, Toronto. There is a member of the Association's staff in the field at all times to maintain continuous contact with all members, including those in the most remote areas.

SCHOLARSHIPS

The Association offers a \$500 scholarship, at the University of Toronto and at Queen's University in alternate years, to the student entering these universities in engineering who has the highest academic standing in Grade XIII. Additional scholarships are awarded at both the University of Toronto and Queen's University in the first, second, and third years. The amount of each scholarship is \$250.

CANADIAN COUNCIL

The Canadian Council of Professional Engineers is the national body for all provincial professional associations. It is composed of one representative from each of the associations, and its objectives are:

1. to assist the provincial association by recommending ways, means and procedures for co-ordinating and standardizing their activities, primarily in matters pertaining to the registration, licensing and transfer of registration of professional engineers;

2. to act, with the unanimous consent of the provincial associations, in respect of other matters of a Dominion-wide nature concerning the profession, either alone or in co-operation with other bodies.

The matters dealt with by the Canadian Council cover a wide range of subjects including:

1. uniform syllabus of examinations for non-graduate engineers;

2. standardized registration requirements;

3. standardized codes of ethics;

4. tariffs of fees and schedules of minimum salaries, and

5. civil defence.

The Council also maintains close liaison with the National Society of Professional Engineers in the United States, as well as with national professional engineering associations of other countries.

STUDENT RECORDING

Engineering undergraduates have the privilege of becoming student members in the Association, and thus can apply themselves conveniently and inexpensively with the 16,000 members of the Association. The student fee is \$1.00 per year, and the accumulation of these payments is deductible from the first full membership fee (\$13.00). Full membership is not available until one year after graduation but apart from voting rights and legal professional registration, student members enjoy all the privileges listed above (publications, insurance, etc.)

Application forms are available, and receivable, at the Engineering Society Store and the Mechanical Building Library, or may be given directly to the Recording Secretary, Professor L. E. Jones, P. Eng., Department of Mechanical Engineering. Renewal forms are yellow; new application forms are white.

Christmas Gift Suggestions

Here once more is Toike Oike's list of Christmas gift suggestions: For the Varsity, a kind-hearted theatrical critic;

For the theatre, a bigger and better AVR;

For the women of the campus, a door-knob from the Debates Room

In Hart House;

For the men of the campus, the women of the campus.

For 1st and 2nd year Engineers, tickets to Skule-Nite 5T9;

For Skule-Nite 5T9, the girls from Skule-Nite 5T8;

For Prof. Farina, a hockey stick;

For hockey, a training diet of borscht and caviar;

For the U. of T. Bookstore, Pogo;

For Pogo, Peanuts;

For Ross Dawson, votes;

For votes, St. Paul's.

And also some for the following:

For the TTC, an X-shaped subway;

For the LCBO, some Christmas spirit;

For the U.S. Navy, a slingshot;

For the Atomic-Energy option, bigger and better piles;

For those who flunk out at Christmas, our sympathy;

For Toike Oike, something worth printing.



Sportoike

By FRANK WAWRYCHUK

As the fall intramural activities grind to a halt and all athletic activities come to a temporary standstill for the Christmas holidays, we at school find ourselves a bit off of the tremendous championship pace set last year. At the moment, Trinity College, by virtue of its accomplishments in rugby, swimming, and soccer and its small size, leads the field for the T. A. Reed Trophy. A really concentrated Skule effort during the rest of the year is essential if we are to remain a contender, come next spring.

This fall, we captured the University Track Championship, largely thanks to a good freshmen turnout. The Arts Faculty Cup for soccer returned to Skule this year through an all-Skule final in which an upstart Junior Skule team upset their favoured older brothers. The Victoria Staff Cup for volleyball will be with us once again this week, the possessors being decided in another all-Skule final in which the Skule III's are meeting Senior Skule. The lacrosse Skule firsts advanced to the finals, before once again bowing out to U. C.

For the remainder of the season, the hockey wars are getting off on the right foot, with many Skule teams doing well to date. Junior Skule is being counted on to carry through our laurels here. As basketball is just getting organized and teams arranged, prospects look good for numerous good entries from Skule. Here again it is Jr. Skule that should be the powerhouse, as competition for a berth on the squad is pretty fierce.

This week, the grunters and groaners hold forth at Hart House. There are already many Skulemen involved in these wrestling preliminaries, but more are desired in all weight classes. Contact Orval Leigh for further information.

Water-polo is now also in the organization stage, and Doug McCulloch or Jim Boase will be glad to place any interested Skulemen on one of the five teams entered. This is an excellent opportunity for freshmen to make up the rest of their required credits, or for any others interested in swimming to partake in a terrific sport.

A reminder to equipment delinquents — especially in lacrosse — please return your equipment immediately via the chute to the athletic store, with name affixed, and pick up deposit any noon hour from a member of the Athletic Executive, there present.



Junior Skule Soccer Team — '57 Champs

Cinderella Team Brings Arts Cup To Skule

For the second year in a row, the Arts Faculty Cup, emblematic of soccer supremacy, rests at Skule. This year, Jr. Skule upset Sr. Skule 1-0 to win the Cup for Skule. For Jr. Skule this was only the climax of a series of upsets including a loss which they won. To explain, let me start at the end of the regular schedule.

Jr. Skule had finished second in the weaker group of Division 1. Their first game was with U. C. who had finished third in the same group. Jr. Skule lost 1-0. However, U. C. used an ineligible player, so Jr. Skule was awarded the game.

Their next opponents, Trinity A, had finished first in the stronger group, and were considered a

shoo-in for a finals berth. Jr. Skule, unawed by the Trinity reputation, put up a stubborn defense led by Sahmann, Hilla and Matsoo. Barry Phillips, a forward converted to goalie, played a stand-out game in the nets. Although Trinity carried the largest part of the play, the Skule attack was highly potent when the opportunities arose. Michevez scored both goals, while Michevez, Fabian and Dixon, played a strong game on the Skule forward wall. This game was protested by Trinity, but the protest was voted down by the Soccer Standing Committee.

Meanwhile, Sr. Skule had disposed of St. Mike's by a 3-1 score. With the wind at their backs in the second half, Sr. Skule controlled most of the play and added an insurance goal. Berkely with two goals and Dearie with one, were the Skule marksmen.

O'Leary, Rundans and Magiso played a strong game on defence for the Seniors.

Thus the scene was set for what was to be the upset of the year. In the first half, Sr. Skule controlled most of the play, but the Jr. Skule defence proved to be unbeatable. The Jr. attack was an ever present threat. As Quantz and Petrusaitis the senior centre-halves, discovered the task of

covering the fast-breaking Michevez was not an easy one. Good passes from Dole and Cox, aided in sending him into the clear. Early in the second half, Jr. Skule pressed the attack and Sahmann finally drove the ball home. From then on, Senior Skule carried the play. However, the wings, Dearie and Casey, were not used enough. Instead, Sr. Skule tried to break through the Jr. centre and were constantly thwarted by Hilla, Sahmann, Andrews and Matsoo. Phillips played well in goal to gain a well deserved shutout, his second in a row. For Sr. Skule, Nittenburg shone in goal, while Petrusaitis, Magiso, Wood, and Trojan played well on defence. The entire forward wall of Casey, Sayer, Phillips, Berkely and Dearie was a constant threat to Jr. Skule due to their accurate passing plays.

As an encore, Jr. Skule defeated Forestry, the Division 2 champions, by a score of 2-0, in a challenge game.

Last year it was predicted that Sr. Skule would be strengthened by Jr. players. This prediction proved to be true. With both Jr. Skule and Skule III's providing players for future Sr. Skule teams, the Arts Trophy should remain at Skule for many years.

J. Q.

Lacrosse

The Skule I lacrosse team advanced to the interfaculty finals this year, before bowing out to the powerful U. C. I team, in a best of three series. U. C., led by their star, Bobby Allan, took it in straight games by scores of 21-10 and 19-12; but not before our lads had given a good account of themselves.

The team finished up the regular league schedule in a solid second place in their grouping and then defeated Trinity 17-1, and Dents 12-8, to advance to the finals. Frank Wawrychuk and Dud Kearney, who led the scoring throughout the year, really hit their stride in the playoffs and played outstanding lacrosse to try and lead the team to victory, but the team just could not contain Allan of U. C. Ian Harrington played outstandingly in the nets and came up with many great saves.

The team will be badly hit by graduation this year with high scorers Frank Wawrychuk and Pat Falby leaving, together with Ian Harrington, Glen Clark, Joe Furgal, and Jim Russel. The nucleus of next year's team will have to come from another high scorer, Dud Kearney, with John Lawrence, Dick Chubb and Bruce McMurphy to back him up.

—P. C.

Water Polo

Water-polo is a sport which in Europe attracts as many spectators as does a good basketball game in the States. Soccer has moved from our public schools here in Canada to a national prominence which, despite riots and the like, may someday surpass Big Four football. Water-polo could possibly follow the same pattern and surpass basketball as a spectator sport.

The University of Toronto water-polo Blues have, in the past two seasons, expanded their playing schedule because there are more and more teams being formed by European newcomers, indicating an upsurge in water-polo interest in the Toronto area.

Water-polo is a healthy and

vigorous sport and is as much fun to play as to watch. You don't have to be a great swimmer to play because of new rules which have been instituted.

Skule has entered five teams in five groups in the intra-mural league this year and we need men to play and supporters to cheer them on. These so-called 'minor sport' teams have been a great factor in the T. A. Reed Trophy race in the past, and will be needed this year in view of our losses in rugby.

Take a chance — enquire about playing the game or come and see one when the season starts next term. You're sure to like the sport one way or another.

—D. M.



Sr. Skule vs. S.P.S. III's

Volleyball

In a thrilling hard fought series, S.P.S. III beat Jr. Skule to capture the semi-final playoff for the right to meet Sr. Skule for the Interfaculty Volleyball Championship. The latest odds from the campus bookmakers instal Gunter Upatnick's Sr. Skule squad as 3-1.

favoured to sweep the series and the championship.

Thus Skule ends another season in complete domination of campus volleyball play. Prediction — For at least the next five years Skule teams will finish roughly in the order they ended up this year.

—J. T.

S.P.S. I vs. S.P.S. III

Hockey

The Jr. Skule team seems to be a real contender this year with a resounding 12-1 win over Jr. U.C., and a 3-2 win over Vic. John Gatten has been an outstanding freshman for the team, while Rentis, Taylor, Simpson and Egan have been doing their usual good job. Jim Domm has been effective on the defense. If coach Bruce Wilson doesn't lose too many players to the intermediates he should have a championship team, come February.

Despite a very slow start, John Casey is getting the Sr. Skule team into shape, and they are looking better each time out. The old regulars, Bill Adams, John Patterson, Jim Gray and Libro Decarle have been carrying the team so far, along with some fine goaltending by Larry Iron. After Christmas, the team should be in high gear and ready to take on St. Mike's "A's" for another try.

There has been a regrouping of the hockey teams because of several faculties withdrawing one or more teams. Jr. Meds. have dropped out of the Junior group, leaving only five teams and thus an eight game schedule instead of ten. Groups three and four are the same, but group five now has seven teams, including S.P.S. IV and S.P.S. VII. This group will play a single round round-robin with the top two teams entering the playdowns. Three teams from groups one and two enter the playoffs, and one team from each of the third and fourth groups.

Basketball

There should be some pretty red faces in third and fourth year about now, as junior and senior basketball practices got under way last week. The Sr. Skule team, picked from the third and fourth years, had four players show up at their first practice. Jr. Skule, picked from first and second year, had fifty-four turn out. This lack of spirit in third and fourth year will undoubtedly show up in the calibre of play of these two teams — Jr. Skule will, in all probability, make it to the finals and perhaps beat the team they'll probably meet, Sr. Meds. Sr. Skule might make it to the quarter finals, at the present rate. Let's get the lead out third and fourth year! . . . The freshmen, make your spirit look very thin.

As we hinted before, Sr. Meds. have a powerful squad this year, but Sr. St. Mike's are always a big threat with their American imports.

An exclusive interview with Jr. Skule coaches George Holm and Roy Onyschuk found them in high spirits. They have five of last year's players back, and joining them are two intermediate Blues in the persons of Bill Patterson and Ted Barrs. The squad will be rounded out with freshmen. By the way, keep your eye on this guy Patterson, he came close to making the Varsity Blues this year. The calibre of players that will have to be cut from Jr. Skule should make S.P.S. III coach Bruce Barrett pretty happy. They also will be a strong Skule team.

—J. T.

Tribute To Freshmen

This year's crop of freshmen is one of the best ever. The interest they've shown in Skule athletics is at times overwhelming. In volleyball they were given ten teams to fill (five more than last year) and they filled them all with another twenty-five players that we just couldn't get teams for. In lacrosse, their interest prompted two new teams, giving Skule a total of seven. In basketball, fifty-four freshmen are trying out for Junior Skule compared with about fifteen last year. A total of thirteen major league basketball teams will be provided this year, an increase of four over last year. In hockey and squash, we just couldn't get enough teams to absorb all those who wanted to play.

S.P.S. V

Consisting mainly of Wallberg residents, (Chemical engineers to you illiterates), this team has gotten off to a flying start, having won its first two games 11-0 (Meds, HD) and 13-0 (Dents, B). It must be noted that all 24 goals are well distributed, with only two players not getting into the act so far. Team members are Bob Stanfield and Tony Valenti in goal; defencemen, Ron Johnson, Jim Hannah, Barry Stephen, Elvi Molinaro; forwards, Chuck Laywine, Lou Ross, Joe Demarsico, Dennis Redican, Kim Shikaze, Larry Leet, Gord Smith, Jay Quartz, and Dennis Caplice. Coaching the team is John B. Patterson of Marlies' fame (Minor-Midgets).

Some of our current success may be due to the fact that many of the players are playing together for three years now. This year, besides dominating our group, we intend to advance farther into the playoffs than we have the last couple of years.

The Skule V's challenge any of the other Skule teams to a game. Just contact any of the fellows.

—K. S.

Sr. S.P.S. Volleyball

True, volleyball is not exactly our national sport but, and a big BUT, this volleyball team is about to win the Reed Trophy for the old S.P.S. Not alone, of course, but as the champion team, we will add enough points to the total to swing the balance.

I think it is time our team got its share of limelight, since it is by far the best volleyball team on campus, which is a fact any engineer should know. The Sr. S.P.S. Volleyball team has won all the games it has played, defaulted none.

The fact that every member of our team is an outstanding player is responsible for our excellent record. Teamwork, co-operation and a genuine love of the game characterize every man on the team. We are proud of our team and we feel that S.P.S. can be proud of us.

Our team is another proof of the superiority of engineers over other forms of life. Whatever an engineer undertakes, he does it well, whether it is a bridge or a volleyball game.

Gentlemen, a toast to the Sr. S.P.S. Volleyball team!!! We're off to the final playoffs to get that championship! Yea, Skule!!!

—Paul Wyszkowski,

Ode To A Belch

Striving and sweetly, noisy and sickening,
Rising in swirls of compressed undulation,
Uneasy at first, then coddled, now badgered,
Toxic tide unstemmed, a triumphant sensation.

On the verge of its freedom, the eve of release,
Unbelievably slowing, momentum decreasing,
But all good cause to effect worth revealing,
Hydraulics, of course, since the pressure's increasing.

Now captive no longer, a throbbing onrushing,
Sheer noise, utter volume, and massive vibration,
Then silence, tomb silence too dense to invade,
Shattered thoughts, rich fumes, and deep satisfaction.

—Dumming, IV Eng. Bus

Scientists Heralded In Song

—Eigen to wash that man right out of my hair,
—For you, Fermi, forever more,
—Bessel mai moucho,
—Fourier's a jolly good fellow
—Millikan, keep those bottles quiet,
—Plink, Planck, plunk,
—Ohm sweet ohm,
—Love me if only Faraday.

Jokes

Book of the Month Selection—
Who Buried the Electric Bulb, or
Mazda's in the Cold, Cold Ground.

You can drag a horse to water
but a pencil must be lead.

Don't believe what you hear
about the good will. They won't.

Mama Gnu wanted papa gnu to
spank their baby, but he made her do it. Said it was time she learned to paddle her own gnu.

"Highball or martini?"
"Just plain ginger ale."
"Pale?"
"No, just a glass."

Traveler: "Quick, give me a round trip ticket!"
Clerk: "Where to?"
Traveler: "Back here, you fool!"

A professor who had completed 30 years of faithful service, retired with a comfortable fortune of \$60,000. He amassed this large sum through his courage, enterprise, initiative, efficiency, the careful investment of his savings, and the death of an uncle who left him \$59,999.

Dairyman's motto: All that I am I owe to udders.

After the devil backed into a lawnmower and lost his tail he went to the LCBO because that's where they retail spirits.

Then there was the blonde secretary who sent a letter to Allis-Chalmers, in Wisconsin, and started it; "Dear Alice . . ."

Sis: I married a man in the fire department.

Miss: Volunteer?

Sis: No, Pa made him.

Dinner Guest: Will you pass the nuts, Professor?

Professor: I suppose so, but I really should flunk them.

"What I can't understand," observed the U. of T. law student, "is how a jury of six young men and six young women can be locked up in a jury room for twelve hours and come out and say, 'Not guilty.'"

Below: Skule Nite
Rehearsal
Ghouls' Scene

Wrestling

Coming up this Thursday and Friday are the Intramural Preliminaries and on Saturday, the finals. Entries mean points for the Reed Trophy and winners have an excellent opportunity to make the Intercollegiate team. Entry may be made in the

wrestling room, Hart House, by signing notice on the bulletin board. Every faculty may enter as many competitors as possible. No intercollegiate team members of last year may enter, so the field is wide open. Weigh-ins will take place on Wednesday at 5:00 p.m., and Thursday, at noon.

